

Claims

We claim:

- Sub B'7
1. A reclosable fastener profile assembly, said assembly comprising:
- 5 a continuous supply of a first profile strip including at least one rib that extends from the surface of said first strip;
- a continuous supply of a second profile strip opposite said first strip said second strip including at least two ribs that extend from the surface of said second strip;
- and
- 10 a compression molded segment seal portion fusing said first profile strip, said second profile strip and said ribs of said first profile strip and said second profile strip.
2. The reclosable fastener profile assembly of claim 1 wherein said rib of said first strip and said ribs of said second strip may be sealingly engaged to maintain an airtight seal when so engaged.
- 15 3. The reclosable fastener profile assembly of claim 1, wherein said compression molded segment seal comprises a fused section of said first profile strip and said second profile strip formed through the application of heat and pressure.

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The reclosable fastener profile assembly of claim 1, wherein said compression molded segment seal includes a severed portion of said first profile strip and said second profile strip thereby cutting said fastener profile and creating an individual profile fastener assembly.

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5. The reclosable fastener profile assembly of claim 1, wherein said continuous supply of first profile strips, said continuous supply of second profile strips and a plurality of said compression molded segment seal create a continuous linear supply of profile fastener assemblies.

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6. The reclosable fastener profile assembly of claim 1, wherein said first profile strip and said second profile strip are configured to fittingly mate together such that said first profile strip is flush with said second profile strip when said first profile strip and said second profile are engaged.

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7. The reclosable fastener profile assembly of claim 1, wherein said ribs of said first and second strips have respective head portions and neck portions, wherein said head portions are arcuate in profile.

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8. The reclosable fastener profile assembly of claim 1, wherein said first strip includes a first end and a second end, said second strip further including a first end and second end, wherein respective first ends and respective second ends of said first and second strips are created through application of said compression molded segment seal.

9. The reclosable fastener profile assembly of claim 1, wherein said ribs of said first and second strips have respective head portions and neck portions, and wherein said head portions are wider than said neck portions.

10. The reclosable fastener profile assembly of claim 1, wherein said second strip includes one more rib than said first strip.

11. The reclosable fastener profile assembly of claim 1, further including means for forwarding said continuous supply of first profile strip and said continuous supply of second profile strip.

12. The reclosable fastener profile assembly of claim 1, wherein said ribs of said first and second strips have respective head portions and neck portions, and wherein said heads portions are arcuate in profile.

13. A method of forming a fastener profile for use in the production of reclosable packages, said method comprising the acts of:

providing an interconnected first profile strip and second profile strip, said interconnected profiles having an end portion; and

- 5 applying heat and pressure to said end portion of said interconnected first and second profile strip thereby fusing said end of said interconnected profiles.

14. The method of forming a fastener profile of claim 13, wherein said method comprising the additional acts of:

- 10 advancing said interconnected first profile strip and second profile strip; and

- applying heat and pressure to a second portion of said interconnected first and second profile strips thereby defining a length of reclosable fastener profile between said first end and said second portion, said second portion also defining
15 the first end of a subsequent fastener profile.

15. The method of forming a fastener profile of claim 14, wherein said method comprising the additional act of:

- cutting said second portion of said interconnected first and second profile
20 strips thereby defining a single reclosable fastener profile.

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Sub 13²⁷

18. A reclosable storage bag comprising:

a first bag wall;

a second bag wall;

a reclosable fastener profile assembly, said assembly comprising:

5 a first profile strip including at least one rib that extends from the surface of said first strip;

a second profile strip opposite said first strip said strip including at least two ribs that extend from the surface of said second strip; and

10 a compression molded segment seal portion fusing said first profile strip, said second profile strip and said ribs of said first profile strip and said second profile strip, wherein said first profile strip and said profile second strip are heat sealed to said first bag wall and said second bag wall, respectively.

15 19. The reclosable fastener profile assembly of claim 1, wherein said profile assembly further includes:

a first bag wall; and

a second bag wall where edges of said first and second bag walls are sealed together thereby defining an inner bag.

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20. ~~The reclosable storage bag of claim 18, wherein said first profile strip and said second profile strip may be sealingly engaged to maintain an airtight seal when so engaged.~~

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21. A method of forming a reclosable storage bag, said method comprising the acts of:

providing an interconnected first profile strip and second profile strip, said interconnected profiles having an end portion;

- 5 applying heat and pressure to said end portion of said interconnected first and second profile strip thereby fusing said end of said interconnected profiles;

applying heat and pressure to a second portion of said interconnected first and second profile strip thereby fusing said second portion of said interconnected profiles;

- 10 cutting said fused portions of said continuous strip of said first and second profiles thereby defining an individual reclosable fastener profile between said fused portions of said continuous strip of interconnected fastener profiles;

sealing said individual reclosable fastener profile to a first and second bag wall, thereby defining a reclosable storage bag.

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